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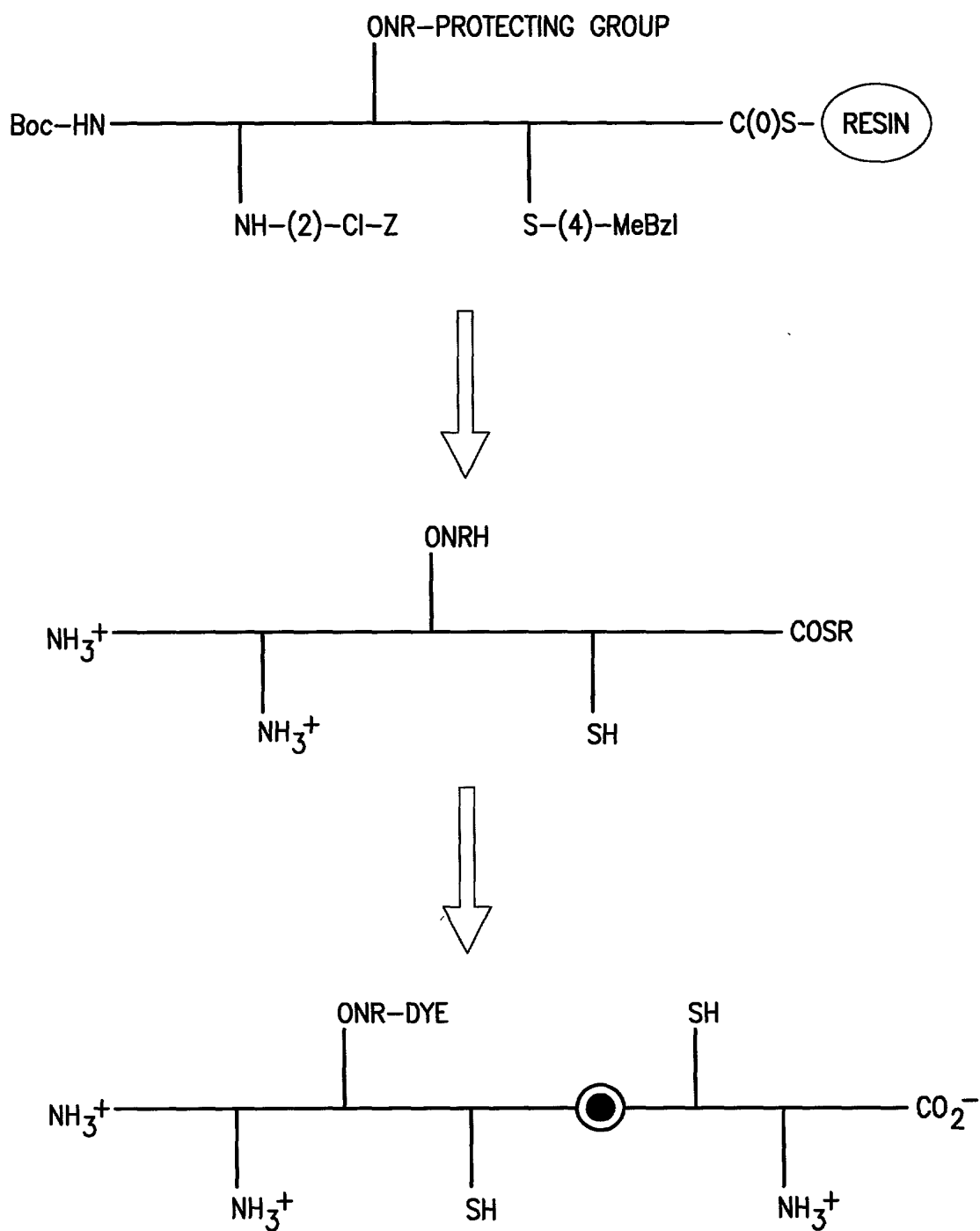


FIG. 1

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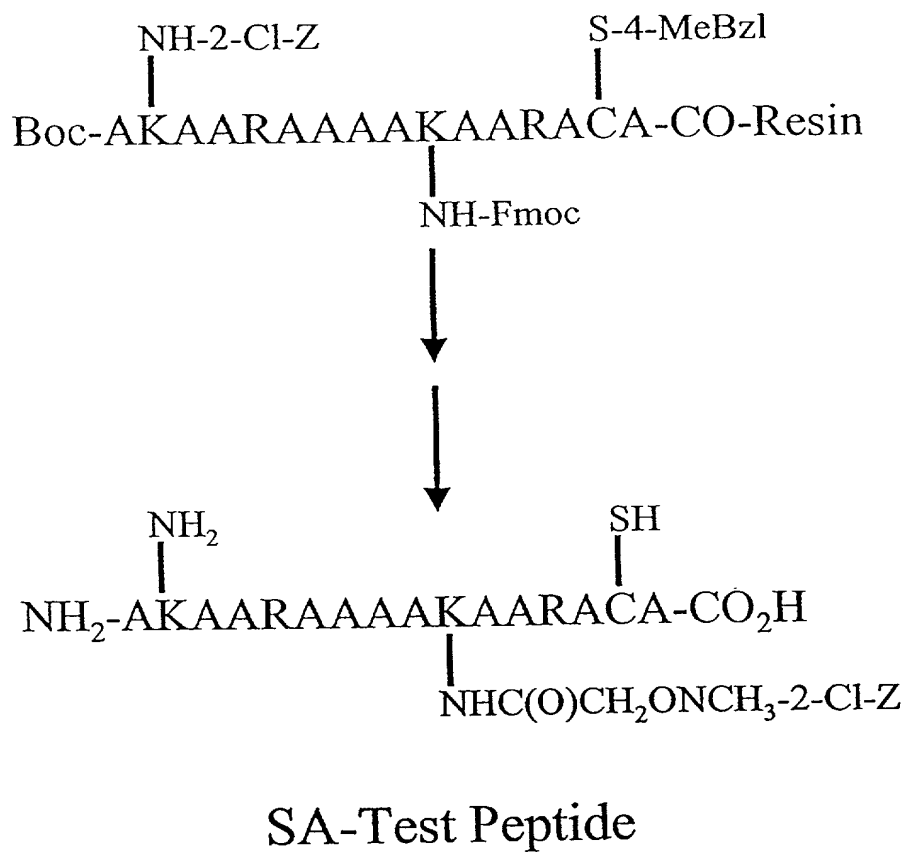


FIG. 2

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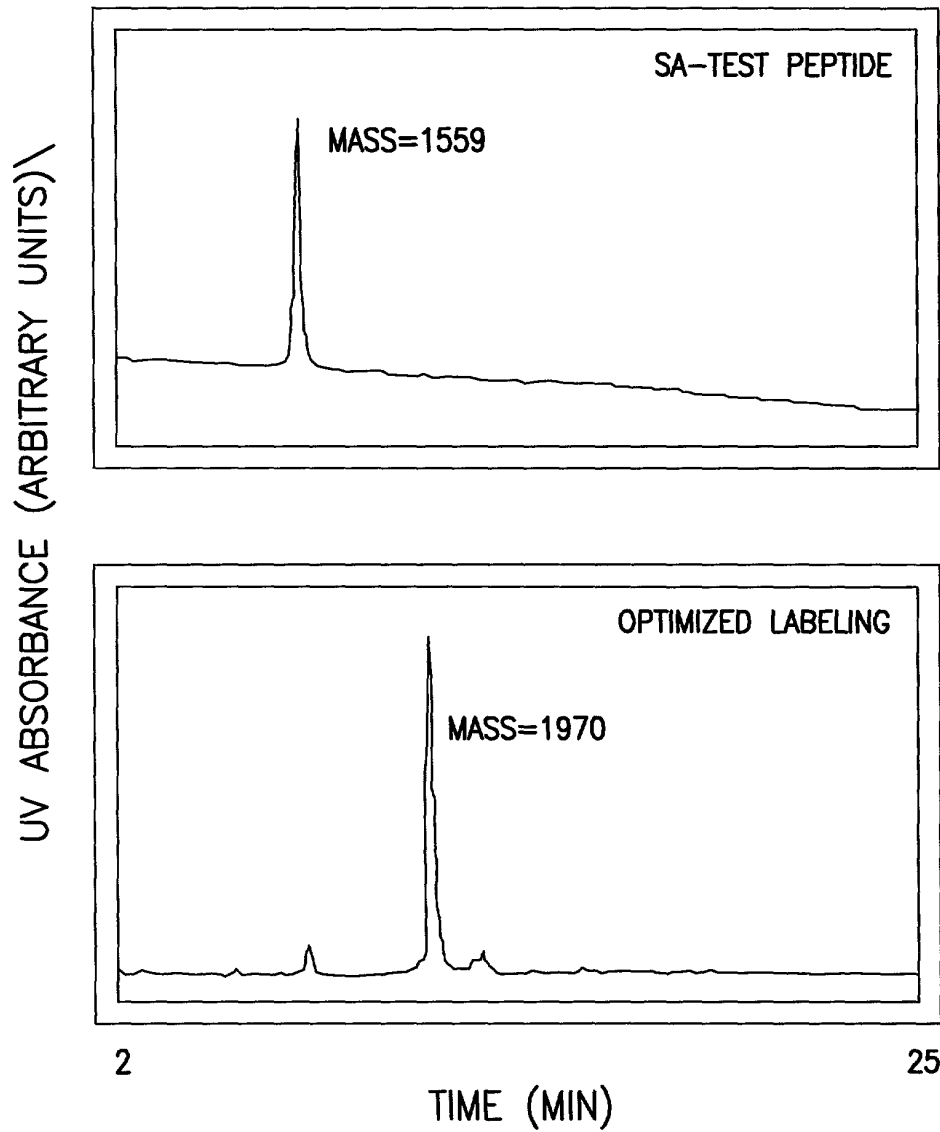


FIG. 3

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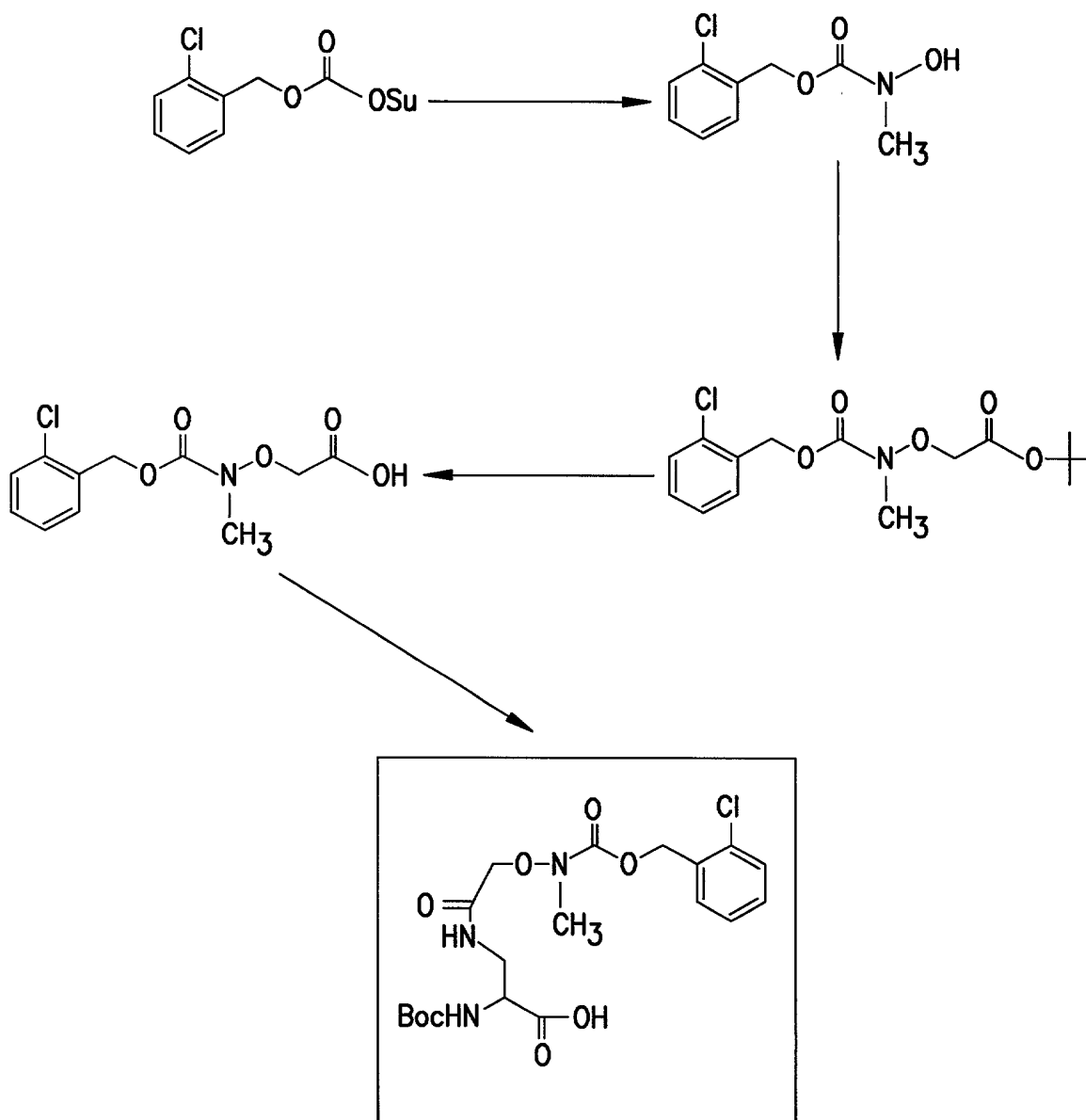


FIG. 4



**FIG. 5**

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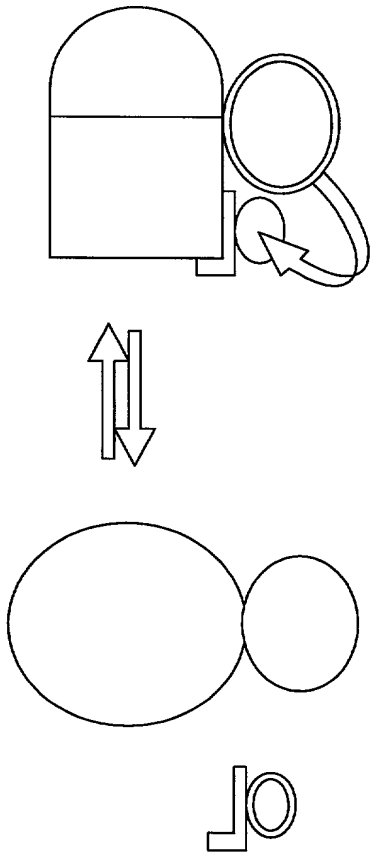


FIG. 6A

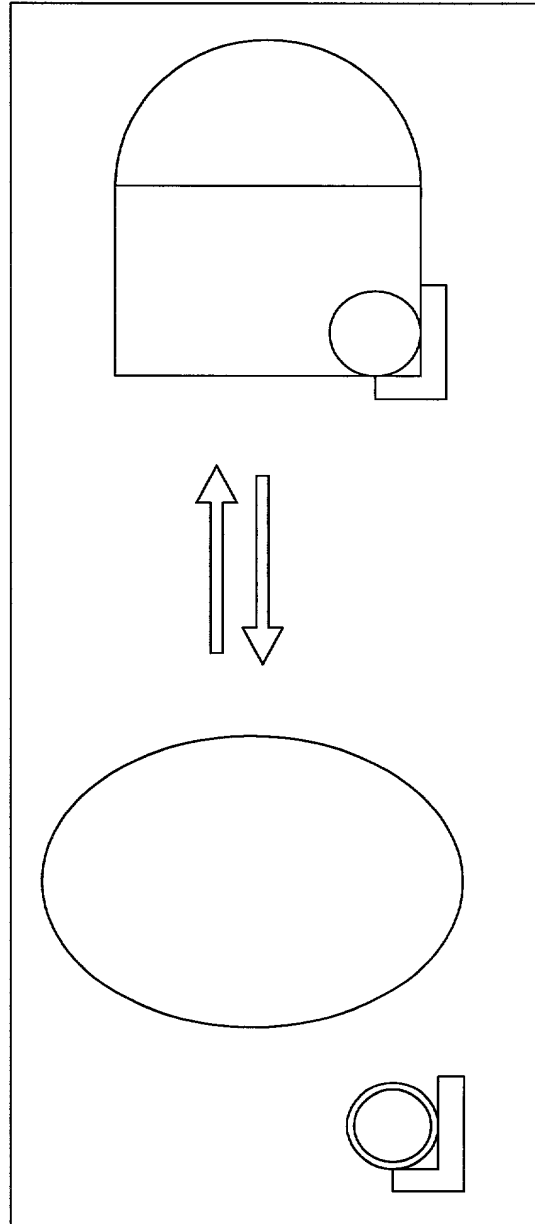


FIG. 6B

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## GFP-Rac to Alexa-PBD FRET

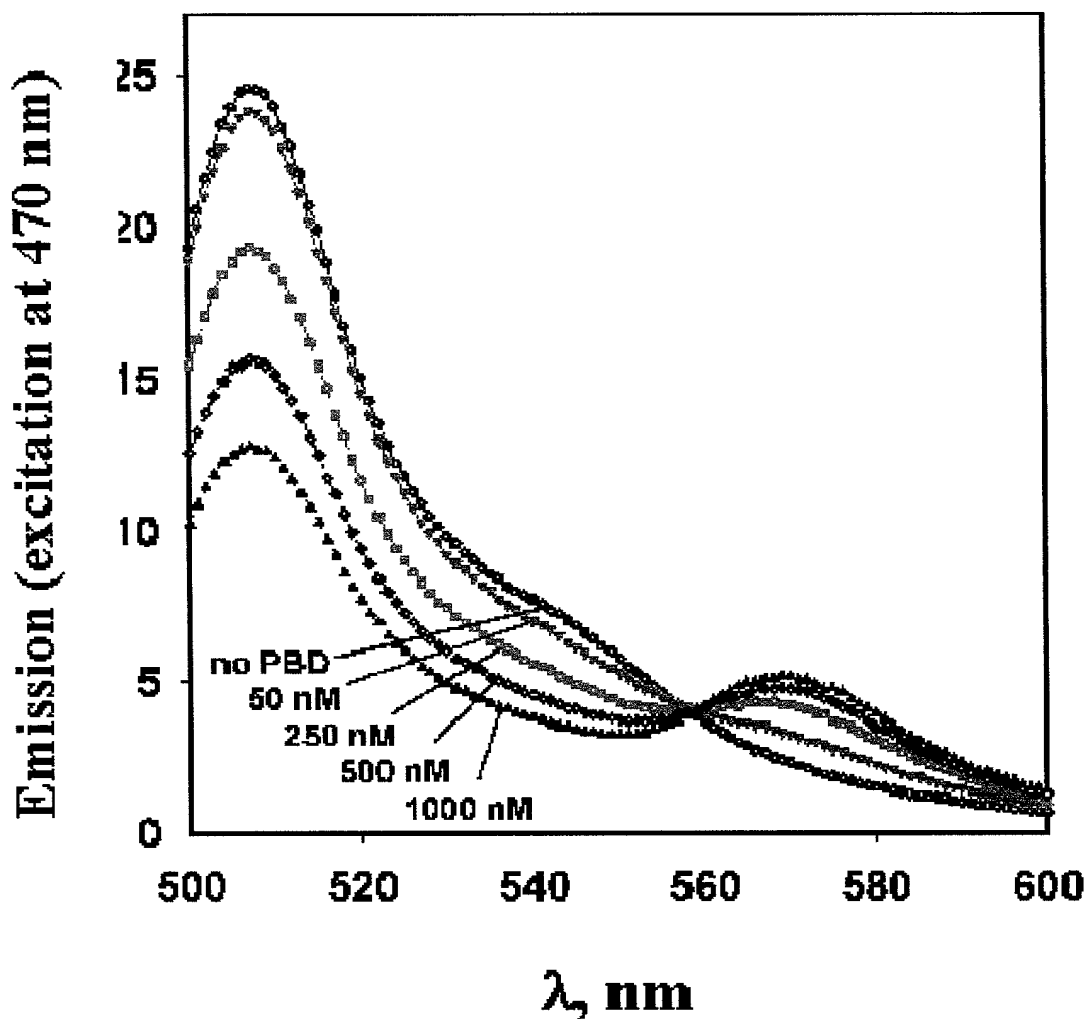


FIG. 7A

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## FRET response to nucleotide state of Rac-GFP

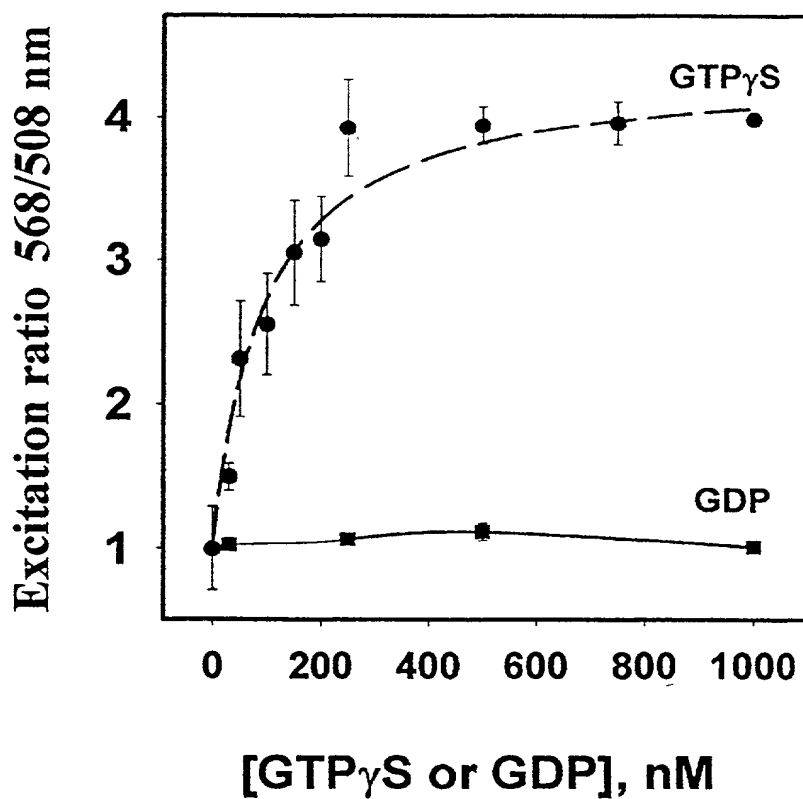


FIG. 7B



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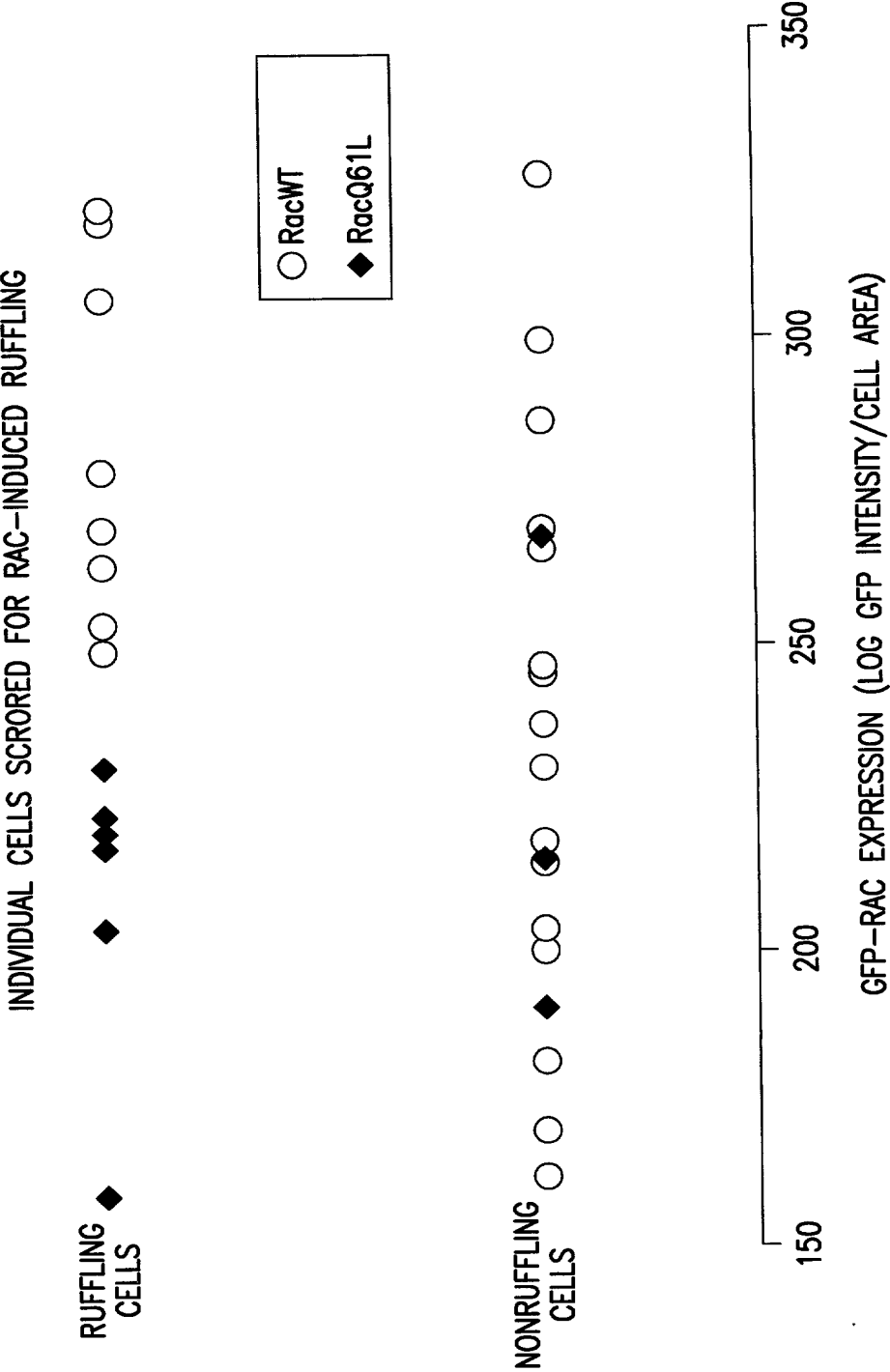


FIG. 8A

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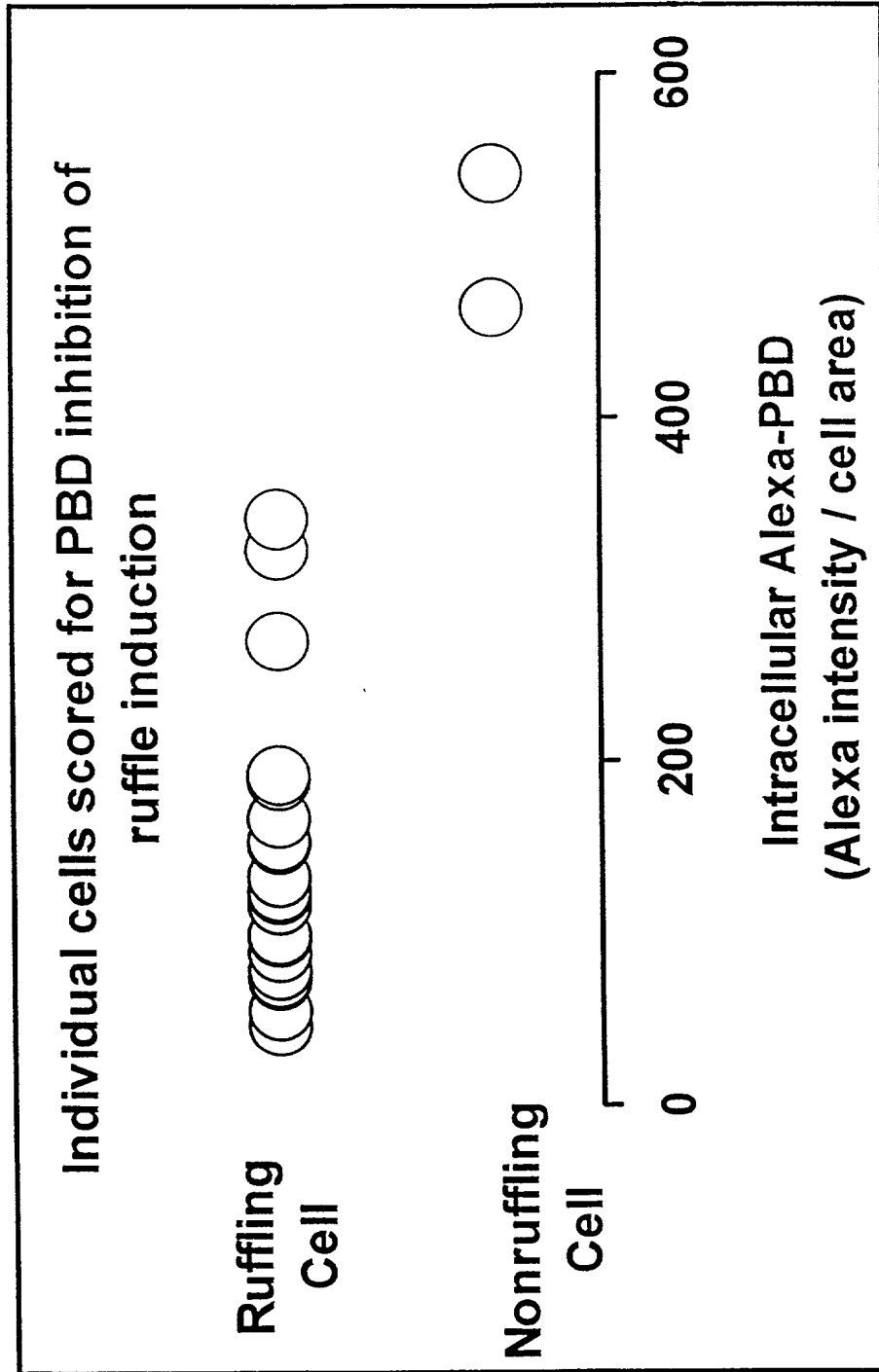


FIG. 8B

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SERUM STIMULATION OF A SWISS 3T3 FIBROBLAST

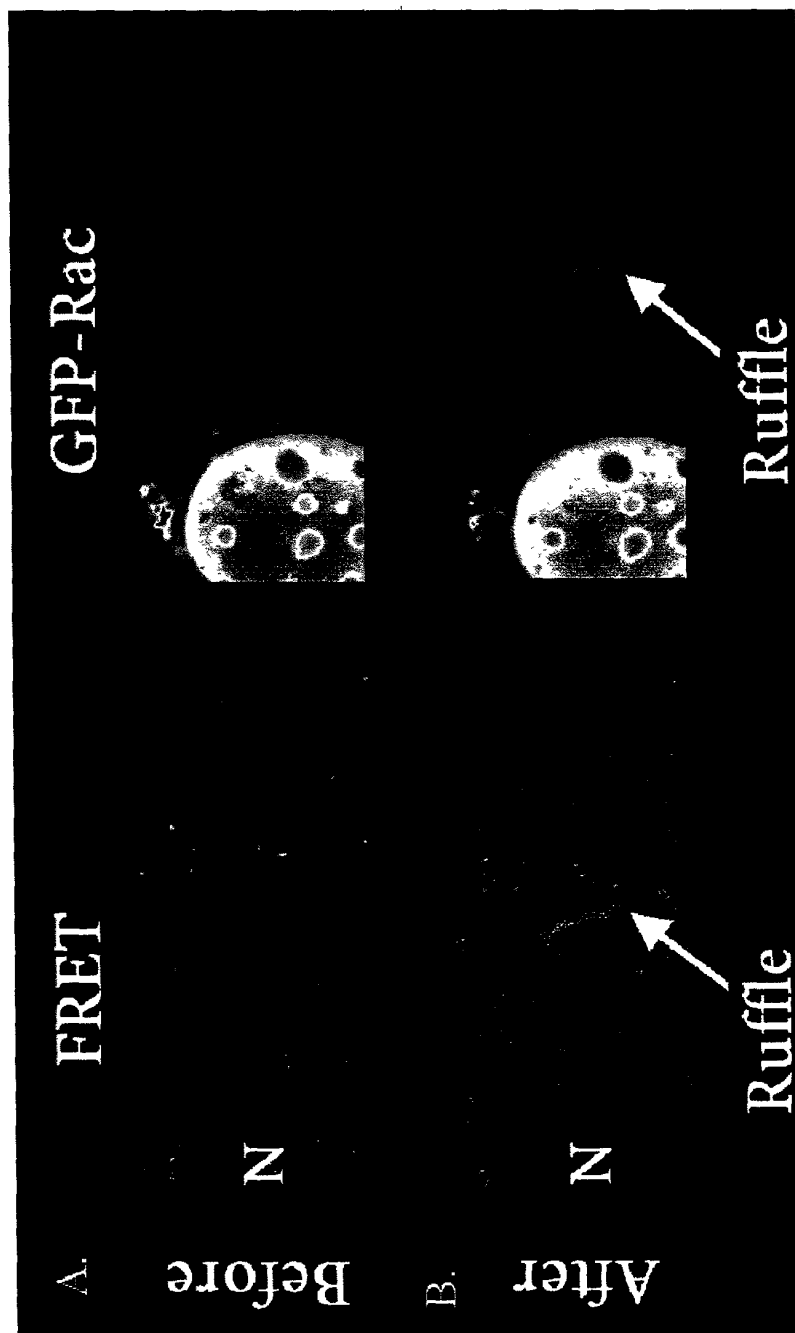


FIG. 9A

FIG. 9B

FIG. 9A

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FIG. 9C

THE SAME RUFFLE VISUALIZED USING EITHER FRET OR Alexa-PBD LOCALIZATION:

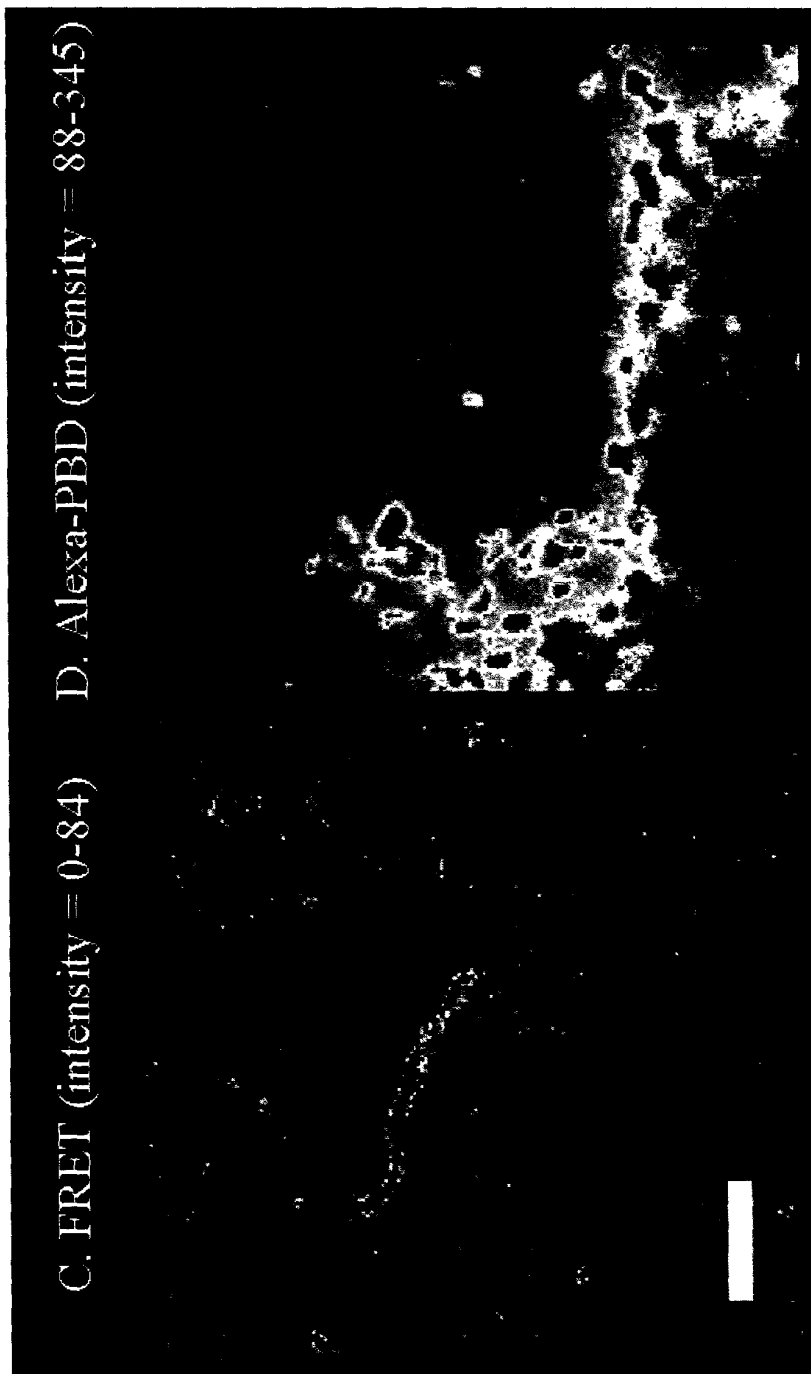
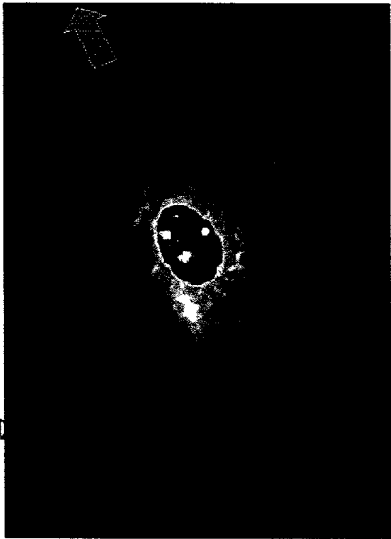


FIG. 9D

FIG. 9C

FIG. 10A: Rac-GFP

Fig. 10A: Rac-GFP

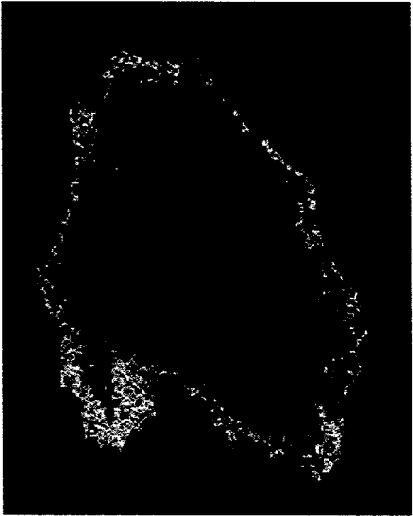


Wound healing

Fig. 10B. FRET



Confluent monolayer



Magnitude of gradient when highest at front	128 +/- 51 %	n=12
Magnitude of gradient highest at rear	9 +/- 4 %	n=4

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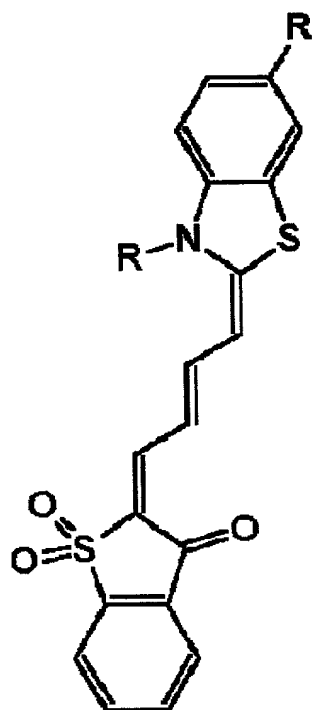


FIG. 11A

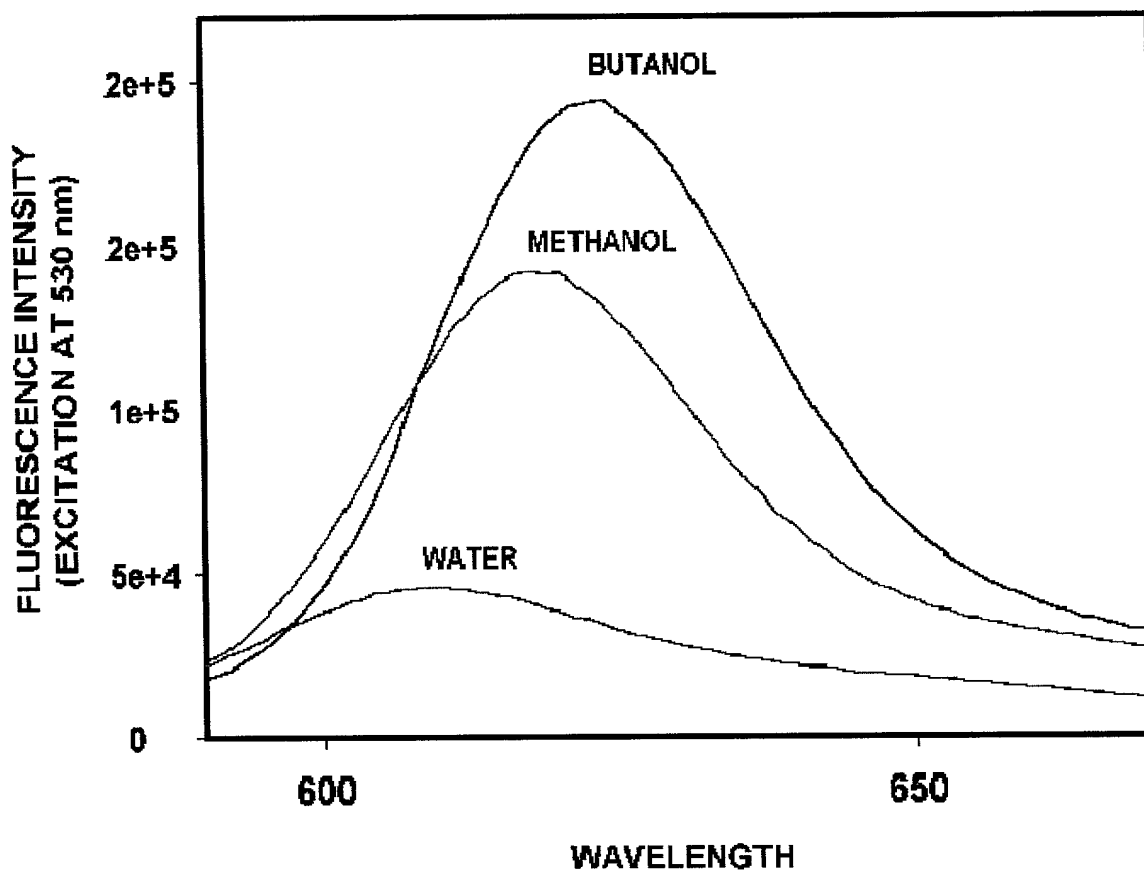


FIG. 11B

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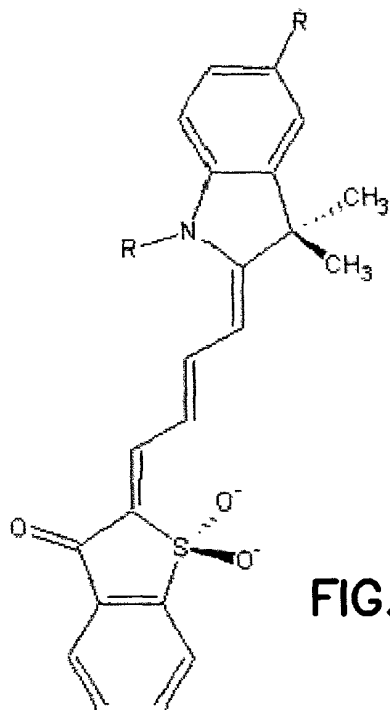


FIG. 12A

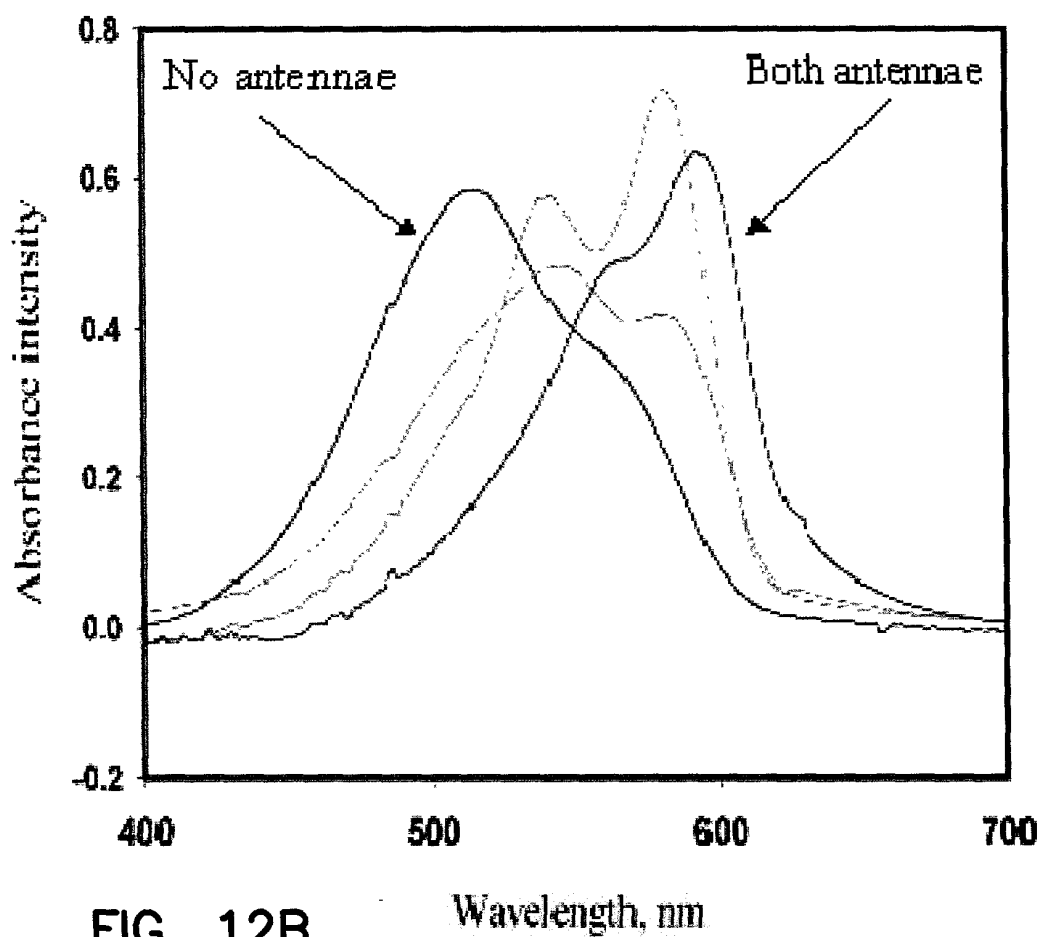


FIG. 12B

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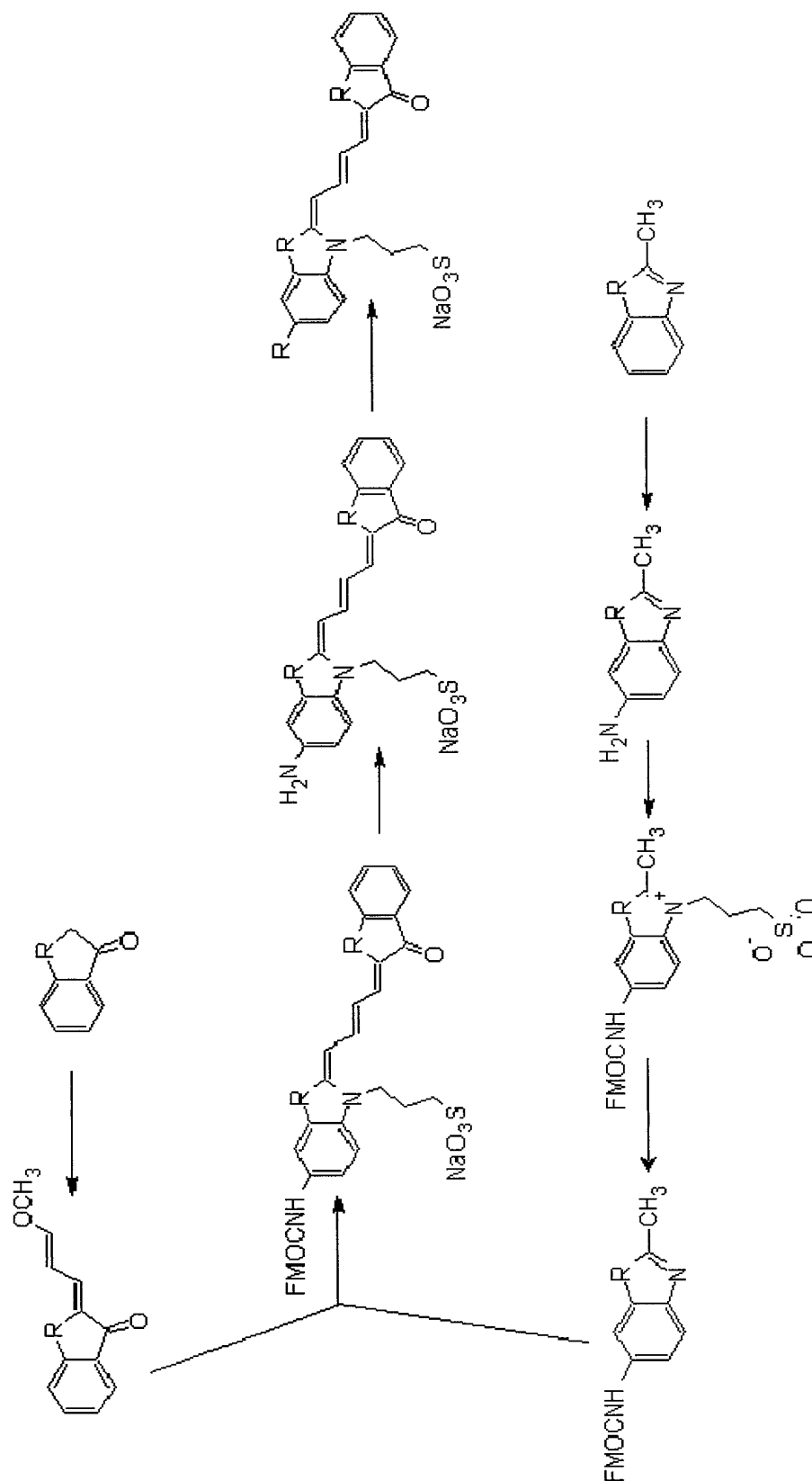


FIG. 13



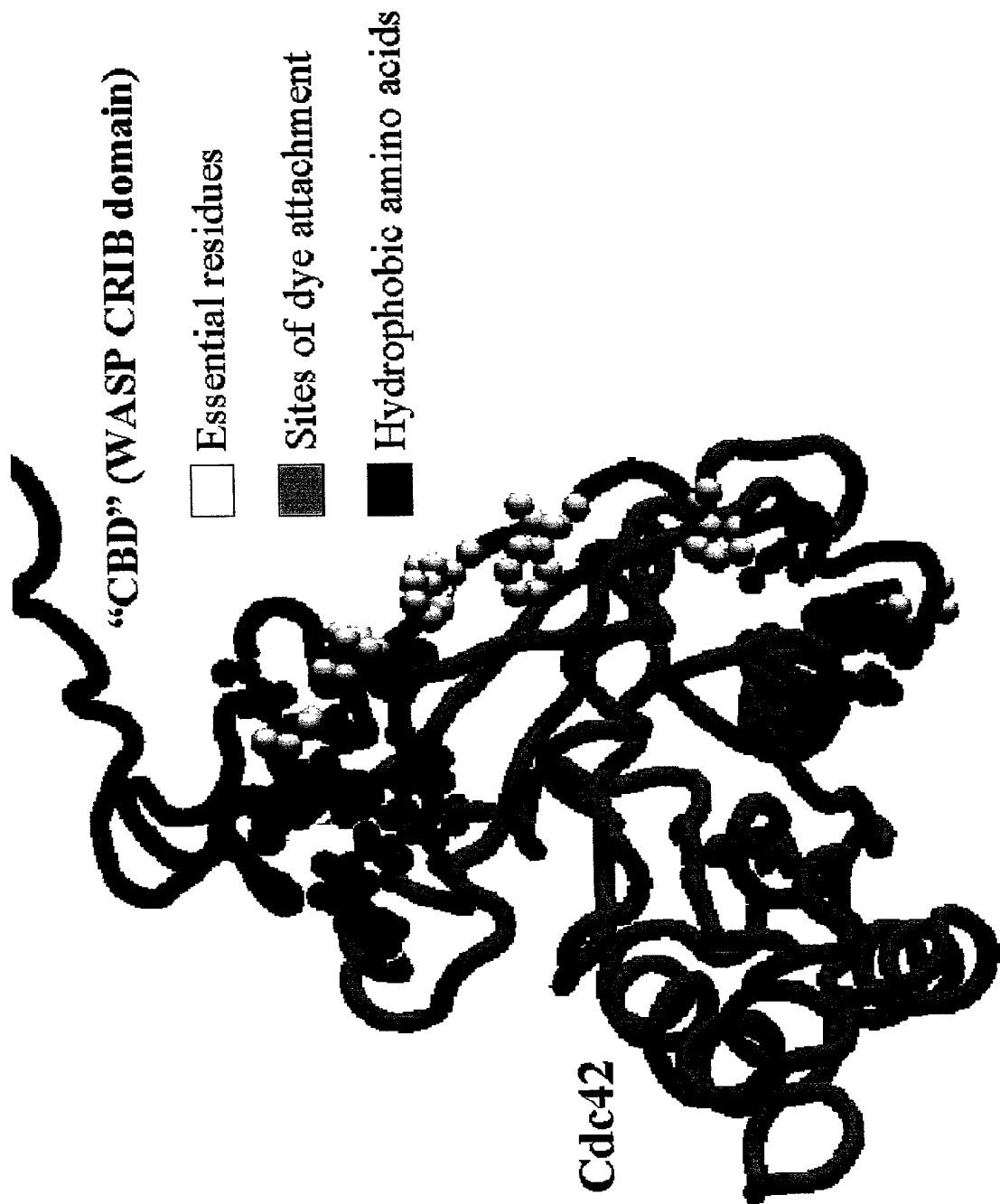


FIG. 14

## Fluorescence of Mero-CBD responds to Cdc42 binding

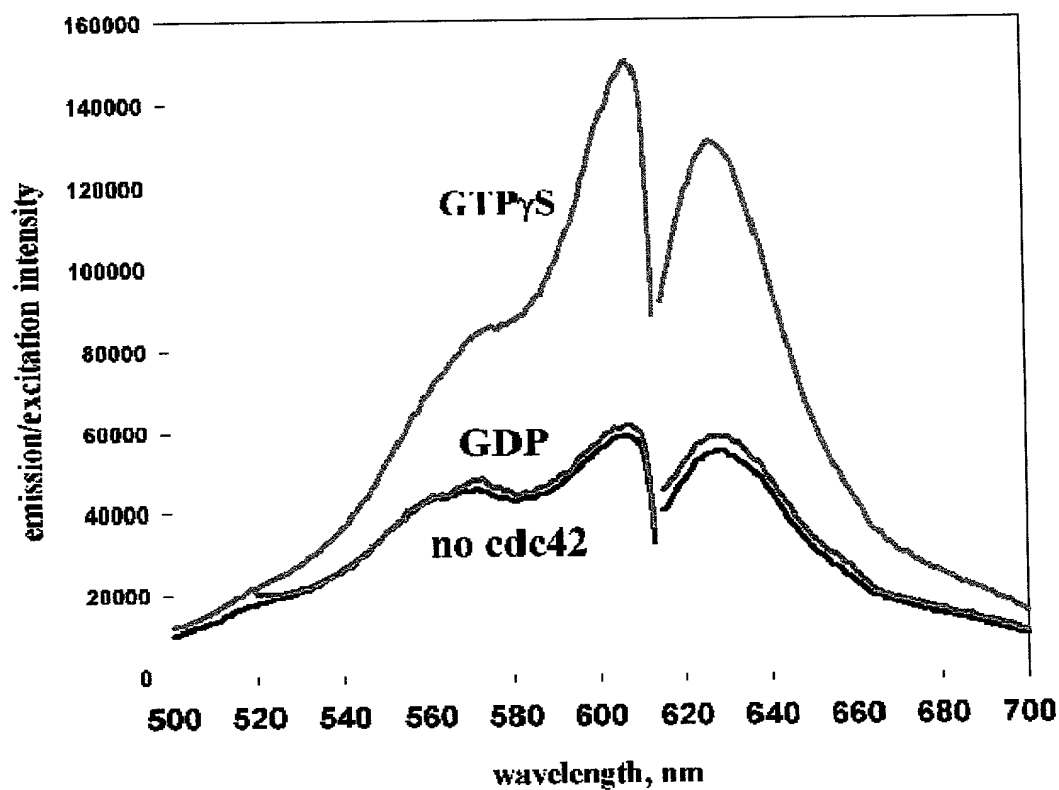


FIG. 15

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# Mero-CBD in neutrophil lysates

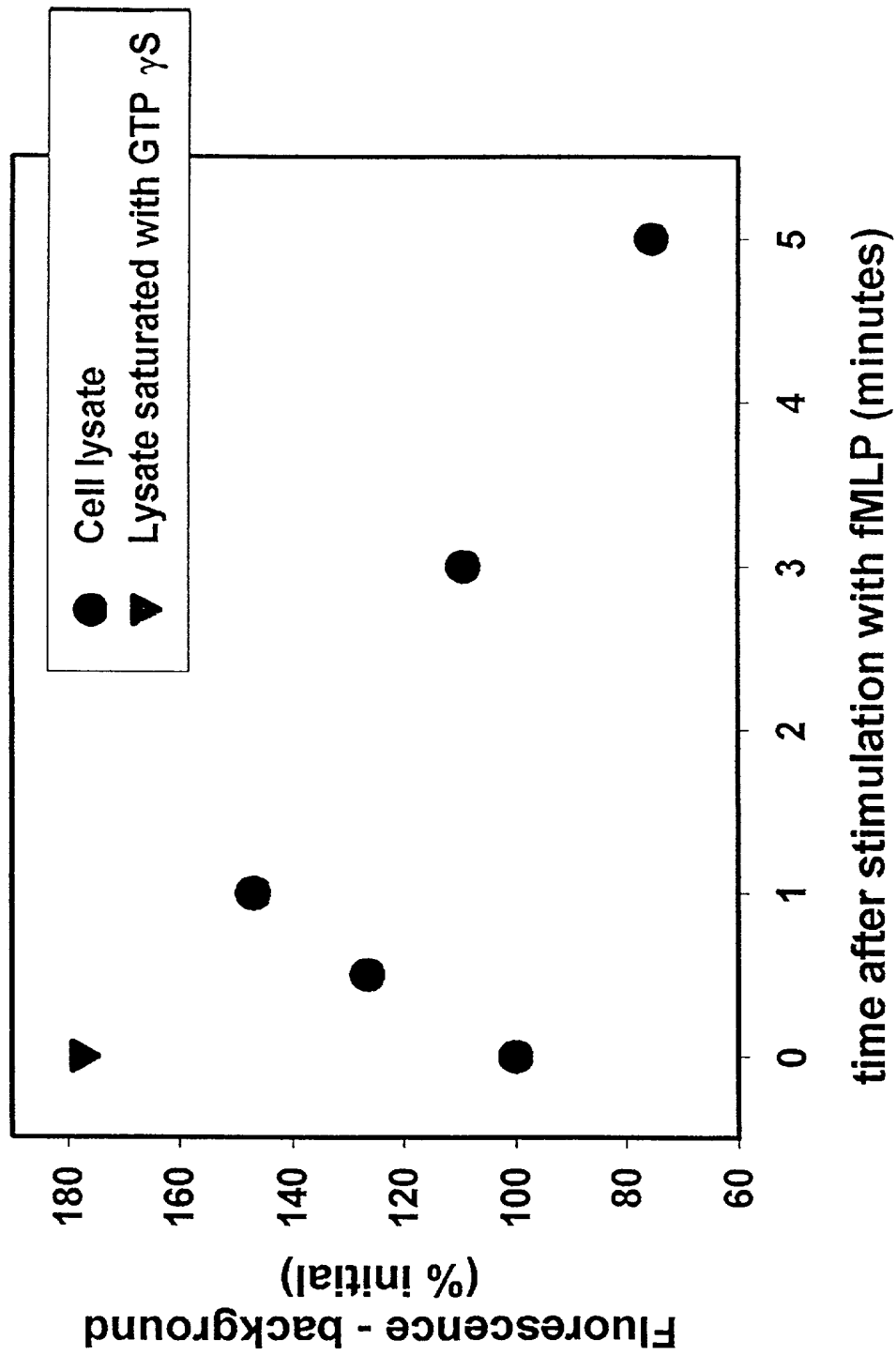


FIG. 16

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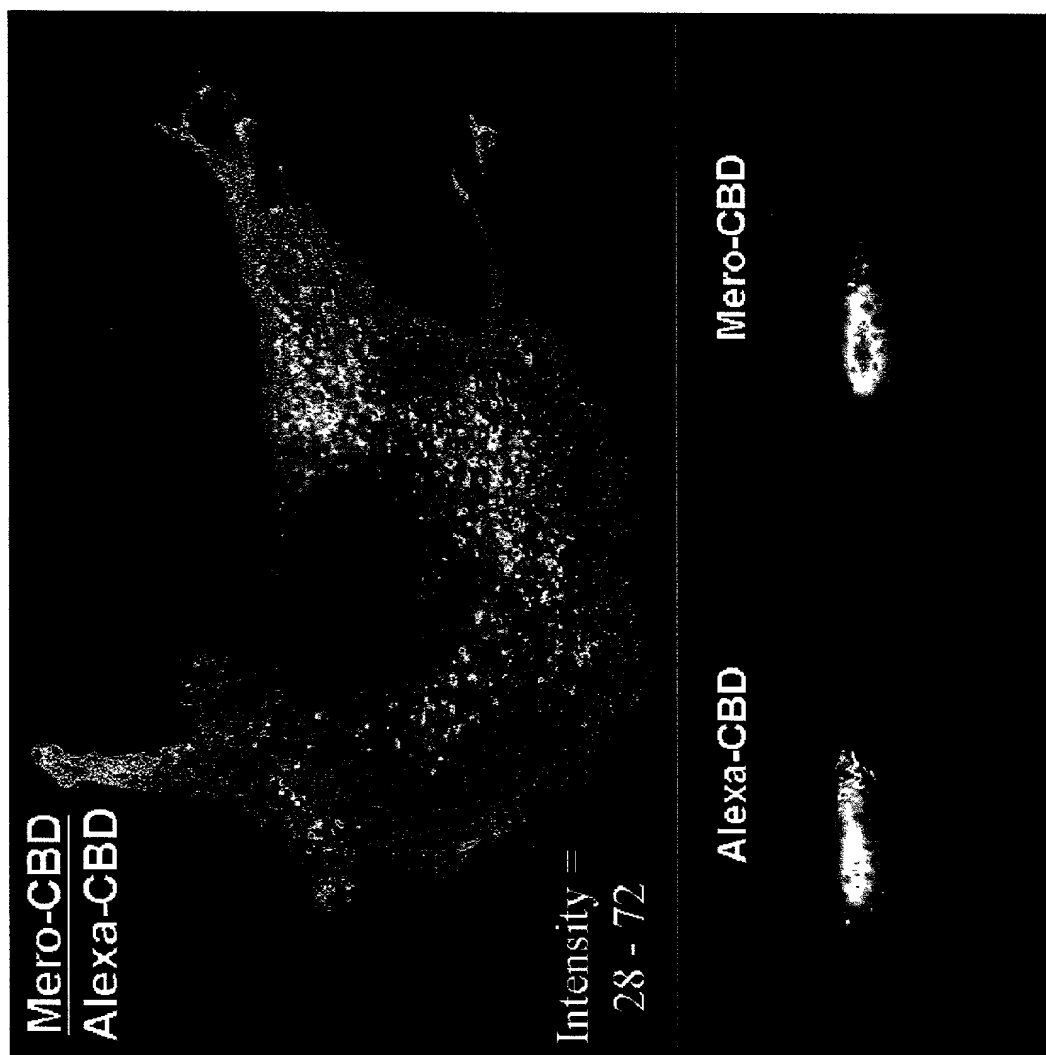


FIG. 17